		Smart Ski	es
		2005 Mathem	natics
		Learning Stan	ndards
District of Columbia	a Mathematics		
Grade 5			
Activity/Lesson	State	Standards	
			Identify relationships among points, lines, and planes (e.g., intersecting, parallel,
Fly by Math	DC	MA.5.G.3	perpendicular). Graph points and identify coordinates of points
Fly by Math	DC	MA.5.G.7	on the Cartesian coordinate plane in the first two quadrants.
i iy by Matii		IVIA.3.G.1	Identify relationships among points, lines, and
Line Up with Math	DC	MA.5.G.3	planes (e.g., intersecting, parallel, perpendicular).
			Graph points and identify coordinates of points on the Cartesian coordinate plane in the first two
Line Up with Math	DC	MA.5.G.7	quadrants.
	I .	Smart Ski	
		2005 Mathem Learning Stan	
District of Columbia	a Mathematics	Learning Stan	
Grade 6			
Activity/Lesson	State	Standards	
			Identify and describe relationships between two variables with a constant rate of change (e.g., perimeter-side relationship for a square, distance-time graphs, and conversions such as feet to inches). Contrast these with relationships
Fly by Math	DC	MA.6.PRA.3	where the rate of change is not constant.
Fly by Math	DC	MA.6.G.4	Graph points and identify coordinates of points on the Cartesian coordinate plane in all four quadrants.
			Identify and describe relationships between two variables with a constant rate of change (e.g., perimeter-side relationship for a square, distance-time graphs, and conversions such as feet to inches). Contrast these with relationships
Line Up with Math	DC	MA.6.PRA.3	where the rate of change is not constant. Graph points and identify coordinates of points on the Cartesian coordinate plane in all four
Line Up with Math	DC	MA.6.G.4	quadrants.
Line Up with Math	DC	MA.6.G.5	Find the distance between two points on horizontal or vertical number lines.
		Smart Ski	98
		2005 Mathem	
		Learning Stan	
District of Columbia	Mathematics		
Grade 7			

Activity/Lesson	State	Standards	
			Demonstrate an understanding that rate is a
			measure of one quantity per unit value of
			another quantity; use models, graphs, and
			formulas to solve simple problems involving
			rates (e.g., velocity and density); check the units
			of the solutions; use dimensional analysis to
Fly by Math	DC	MA.7.M.3	check the reasonableness of the answer.
i iy by iviatii		IVIA.7.IVI.5	Select, create, interpret, and use various tabular
			and graphical representations of data (e.g.,
□	D0	NAA 7 DAODO	circle graphs, Venn diagrams, stem-and-leaf
Fly by Math	DC	MA.7.DASP.2	plots, histograms, tables, and charts).
			Identify, describe, and analyze linear
			relationships between two variables. Compare
			positive rate of change (e.g., $y = 3x + 1$) to
Line Up with Math	DC	MA.7.PRA.7	negative rate of change (e.g., $y = -3x + 1$).
			Demonstrate an understanding that rate is a
			measure of one quantity per unit value of
			another quantity; use models, graphs, and
			formulas to solve simple problems involving
			rates (e.g., velocity and density); check the units
			of the solutions; use dimensional analysis to
Line Up with Math	DC	MA.7.M.3	check the reasonableness of the answer.
		Smart Skies	
		2005 Mathemat	tics
		Learning Standa	ards
District of Columbia	a Mathematics		
Grade 8			
Activity/Lesson	State	Standards	
			Solve problems involving derived quantities
			such as density, velocity, and weighted
Fly by Math	DC	MA.8.NSO-C.10	averages.
			Interpret the formula $(-x)(-y) = xy$ in calculations
			involving such things as distance, speed, and
			time, or in the graphing of linear functions. Use
			this identity to simplify algebraic expressions
Fly by Math	DC	MA.8.PRA.7	[e.g., $(-2)(-x + 2) = 2x - 4$].
T Ty by Watti			Select, create, interpret, and use various tabular
			and graphical representations of data (e.g.,
Fly by Math	DC	MA.8.DASP.2	scatterplots, box-and-whisker plots).
i iy by ivialii	טט	IVIA.U.DAGE.Z	
			Solve problems involving derived quantities
Lina Lla with Matt	DC	MA 0 NOO 0 40	such as density, velocity, and weighted
Line Up with Math	DC	MA.8.NSO-C.10	
		1	Identify the slope of a line as a measure of its
			steepness and as a constant rate of change
			steepness and as a constant rate of change from its table of values, equation, or graph.
Line Up with Math	DC	MA.8.PRA.4	steepness and as a constant rate of change

			Interpret the formula $(-x)(-y) = xy$ in calculations
			involving such things as distance, speed, and
			time, or in the graphing of linear functions. Use
			this identity to simplify algebraic expressions
Line Up with Math	DC	MA.8.PRA.7	[e.g., (-2)(-x + 2) = 2x - 4)].
			Find the distance between two points on the
			coordinate plane using the distance formula; find
			the midpoint of the line segment; recognize that
			the distance formula is an application of the
Line Up with Math	DC	MA.8.G.6	Pythagorean theorem.
			7 0
		Smart Ski	
		2005 Mathem	
		Learning Stan	dards
District of Columbia			
Grades 9-12 (Algebi	<i>*</i>		
Activity/Lesson	State	Standards	
			Select, create, and interpret an appropriate
			graphical representation (e.g., scatter plot, table,
			stem-and-leaf plots, circle graph, line graph, and
			line plot) for a set of data, and use appropriate
			statistics (e.g., mean, median, range, and mode)
			to communicate information about the data. Use
Fly by Math	DC	MA.AI.D.1	these notions to compare different sets of data.
		Smart Ski	
		2005 Mathem	
		Learning Stan	dards
District of Columbia			
Grades 9-12 (Geome		Oten dende	
Activity/Lesson	State	Standards	Draw and label acts of points such as line
Chy by Math	DC	MA C C 4	Draw and label sets of points such as line
Fly by Math	DC	MA.G.G.4	segments, rays, and circles.
	D 0		Draw and label sets of points such as line
Line Up with Math	DC	MA.G.G.4	segments, rays, and circles.
			Using rectangular coordinates, calculate
			midpoints of segments, slopes of lines and
			segments, and distances between two points,
			and apply the results to the solutions of
Line Up with Math	DC	MA.G.G.18	problems.